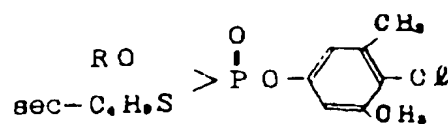


012

Patent Abstracts of Japan

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I

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 PATENTEE : KUMIAI CHEM IND CO LTD  
 PATENT DATE: 30-11-1981

INVENTOR : CHIYOMARU ISAO; others: 03



II

INT.CL. : C07F9/18; A01N57/14

TITLE : ORGANIC PHOSPHATE  
 DERIVATIVE, ITS PREPARATION  
 AND INSECTICIDE, ACARICIDE,  
 NEMATOCIDE AND  
 GERMICIDE CONTAINING THE SAME  
 AS ACTIVE CONSTITUENT

ABSTRACT : NEW MATERIAL: The titled compound expressed by formula I (R is methyl or ethyl).  
 EXAMPLE: O-Methyl S-sec-butyl O-(4-chloro-3,5-dimethyl)phenyl phosphorothiolate.  
 USE: An insecticide, an acaricide, a nematocide and a germicide having a wide insecticidal spectrum and improved activity particularly against injurious insects of rice plants, vegetables, apples, etc., and capable of exhibiting a control effect on blights of oats caused by Puccinia coronata in an amount of 1-50ppm.  
 PROCESS: 4-Chloro-3,5-dimethylphenol is reacted with an O-alkyl S-sec-butyl phosphorochloridothiolate of formula II (X is halogen) in the presence of an acid acceptor, e.g. a trialkylamine or pyridine, in a solvent, e.g. ether or benzene, to give the compound of formula I.